

ABSTRACT OF INVENTION

Disclosed is an automatically-activated wireless code symbol reading system comprising a bar code symbol reading mechanism contained within a hand-supportable housing having a manually-activatable data transmission switch. During symbol reading operations, the bar code symbol reading mechanism automatically generates a visible laser scanning pattern for repeatedly reading one or more bar code symbols on an object during a bar code symbol reading cycle, and automatically generating a new symbol character data string in response to each bar code symbol read thereby. During system operation, the user visually aligns the visible laser scanning pattern with a particular bar code symbol on an object (e.g. product, bar code menu, etc.) so that the bar code symbol is scanned, detected and decoded in a cyclical manner. Each time the scanned bar code symbol is successfully read during a bar code symbol reading cycle, a new bar code symbol character string is produced, while an indicator light on the hand-supportable housing is actively driven. During the bar code symbol reading cycle, the user actuates the data transmission switch producing a data transmission control activation signal and enabling a currently or subsequently produced symbol character data string to be automatically selected and transmitted to the host system. By virtue of the present invention, automatically-activated hand-supportable bar code symbol readers are now able to accurately read, in an unprecedented manner, bar code symbols on bar code menus, consumer products positioned in crowded point-of-sale environments, and other objects requiring automatic identification and/or information access.